

NBI System 3000 Paperwork Processor™

Specifications – Single Station

Our Paperwork Processors are modular, software-based visual display word processors that will perform countless typing jobs. Not to mention record keeping and communications.

They eliminate much of the time-consuming operations that currently burden secretaries and typists. They do typing, filing, mailings, basic math, and editing work. Simply. Rapidly. Cost efficiently. And automatically.

The Single Station is the basic configuration.

Components

- Master Station, Single Disk Drive
- Movable Keyboard
- Character Printer
 - 55 Characters Per Second
 - Bi-directional
 - Interchangeable Fonts

Features

- System Controls
 - Disk Drive Locks
 - Software Controlled Off
 - Background Printing
 - Power Fail Protect
 - Two Hour Battery Back-up



Features (cont.)

Record

Automatic carriage return
Automatic indent
Automatic centering
Single keystroke paragraphing
Automatic underscore
Block overstrike
Multilevel super & subscripts
Automatic footnote control
Automatic outline format
Automatic paragraph numbering
Phrase dictionary
240 character typing line
Horizontal scroll
Automatic pagination
Headers, trailers & page numbers
Automatic hyphenation pass
Recorded tabs
 left flush
 right flush
 decimal
 center
 dot leader
Automatic widow/orphan control

Document control & filing

Automatic directory
Typist & author records
Time & date tracking
Available disk space
Disk password security
Document password security

Revision

Scrolling – forward & backward
Scrolling – left & right
Page scroll
Search to any page
Search to text
Unlimited insertions
Delete – character, word, line, block
Unlimited text movement
Block text copying

Search & replace
 global or verified
 exact or matched case
Tabular revision
 delete columns
 swap columns
Automatic adjust
Automatic repagination

Special applications

Automatic letter writing
Paragraph selection
Automatic outline format
Automatic index creation

Printing

55 characters per second
Right justification
10, 12, or 15 pitch
13.2" writing line
Single sheet or continuous
Eight document print queue
Printwheel memory
Multifont printing

Format controls

Page length
Line spacing
Left margin
Top margin
Paragraph indent
Character spacing
Line length
Text length
Paragraph spacing
Justification
Proportional spacing
Automatic multi-column

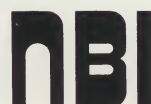
Physical Characteristics

Unit	Height	Depth	Width	Weight
Master station	14.50"	27.0"	25.00"	95.0 lbs.
Printer	7.11"	13.5"	23.63"	28.0 lbs.
Proportional printer	13.00"	16.0"	24.00"	27.0 lbs.
Wide document printer	7.11"	13.5"	36.50"	37.2 lbs.
Dual headed printer	7.11"	13.5"	36.50"	40.0 lbs.

Optional Features

Printer options

Proportional spacing
 40 characters per second
 10, 12, or 15 pitch and PS
Wide document printer
 33 characters per second
 28" maximum page width
 26" maximum writing line
Dual headed printer
 35 characters per second
 28" maximum page width
 13.2" maximum writing line
Sheet feeder option
 180 sheet capacity
Second disk drive
Second printer
 any mix of printers
Statistical math package
 columns & rows defined
 add, subtract, multiply, divide
 sums and means
 percentage distribution
Equation mode
 14 levels displayed
 math symbols displayed
 Greek symbols displayed
Asynchronous communications
 NBI compatibility
 ASCII terminal
 software selected speeds
 background operation
 auto dial supported
 auto receive supported
Sort/select
Forms print



1695 38th St., Boulder, CO 80301,
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(303) 825-8403.

NBI System 3000 Paperwork Processor™

Specifications – Dual System

Do you have a paperwork load that's too heavy for a single station Paperwork Processor? Then you need the dual station.

Since the Paperwork Processors are modular systems, you can expand their capabilities without changing or trading in any of the components used in your original configuration.

When you're ready, move up from a single station to a dual station – simply by adding a second editor and keyboard to your single station.

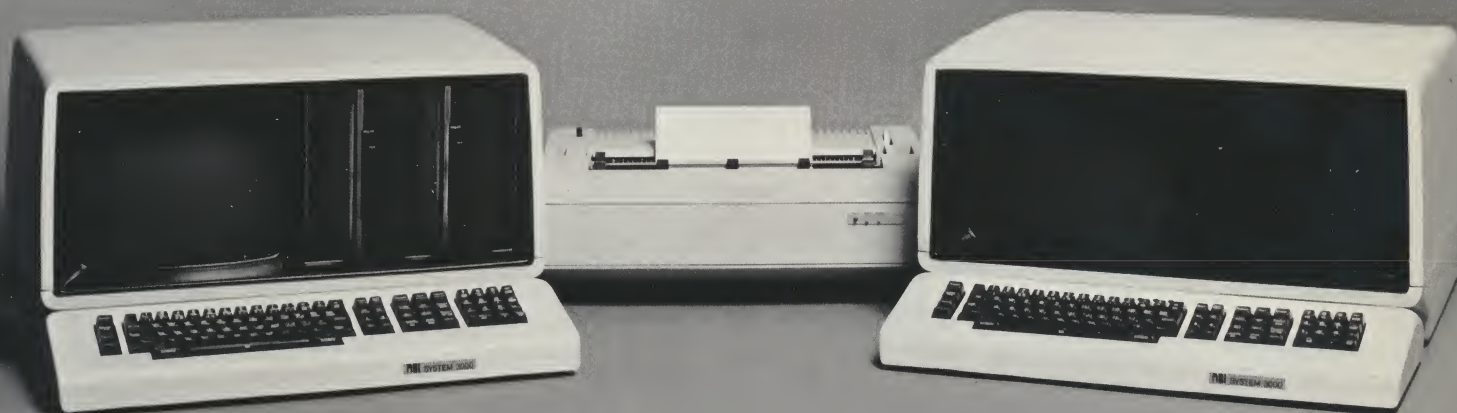
It's easy. It's inexpensive. It's the NBI way.

Components

- Master Station, Dual Disk Drive
- Second Video Typing Station
- Two Movable Keyboards
- Character Printer
 - 55 Characters Per Second
 - Bi-directional
 - Interchangeable Fonts

Features

- System Controls**
 - Disk Drive Locks
 - Software Controlled Off
 - Background Printing
 - Power Fail Protect
 - Two Hour Battery Back-up



Features (cont.)

Record

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Automatic indent
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240 character typing line
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Headers, trailers & page numbers
Automatic hyphenation pass
Recorded tabs
 left flush
 right flush
 decimal
 center
 dot leader
Automatic widow/orphan control

Document control & filing

One disk per typing station
Automatic directories – two
Typist & author records
Time & date tracking
Available disk space
Disk password security
Document password security

Revision

Scrolling – forward & backward
Scrolling – left & right
Page scroll
Search to any page
Search to text
Unlimited insertions
Delete – character, word, line, block
Unlimited text movement
Block text copying

Search & replace
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Text length
Paragraph spacing
Justification
Proportional spacing
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Unit	Height	Depth	Width	Weight
Master station	14.50"	27.0"	25.00"	95.0 lbs.
Second video station	14.50"	27.0"	25.00"	50.0 lbs.
Printer	7.11"	13.5"	23.63"	28.0 lbs.
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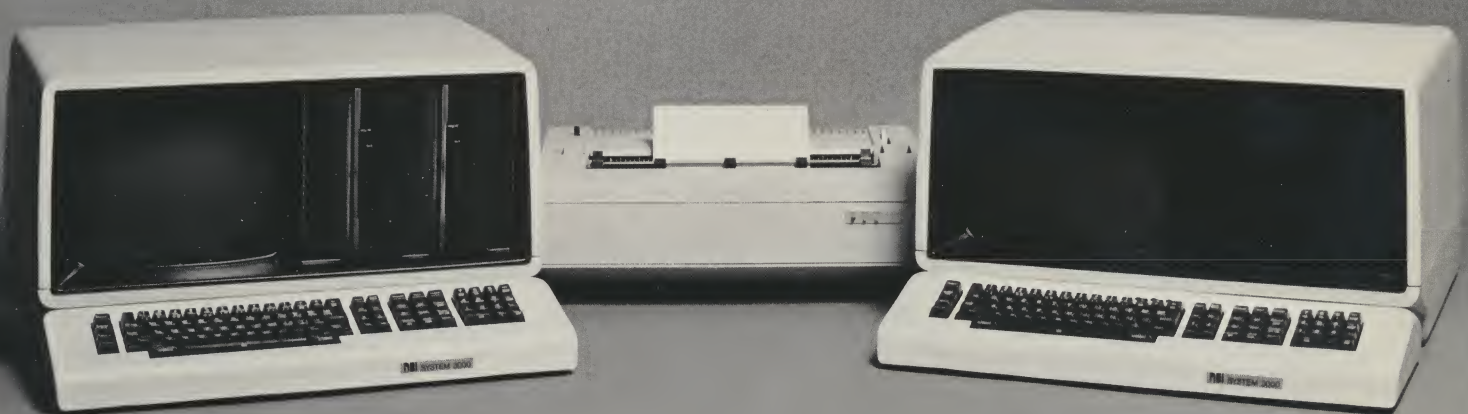
Records Processing Package

Do you have files of information in your office, such as directories, personnel records, inventories, vendor lists, and the like? Then you know what a problem they can be if handled manually. Now, however, they can be maintained automatically with our System 3000 Paperwork Processors Records Processing Package.

The package lets you electronically maintain, update, and expand files, and reorder files in ascending or descending, alpha or numeric order. All automatically. The files may contain up to 70 fields of information, with files up to 200,000 characters in length. In addition, the Records Processing Package lets you copy the file while sorting, or sort the original file into new sequence, whichever you choose.

Another powerful feature of the package is its ability to apply a wide range of selection criteria to files. So you select only those records you desire to create a new file for special purposes. And these selection criteria can even be combined in the same pass to create a truly unique management information tool.

Only those fields of information required for a specific application need be included in the newly selected file. And they are then resequenced in an order that matches the individual job perfectly.



Once sorted and/or selected, the information fields used with Records Processing can be merged with other formats or text in the forms fill-in or automatic letter modes. Files or portions of files which have been sorted or selected may be placed in word processing documents (with full System 3000 text editing capabilities available) for the generation of final reports.

And for help in preparing financial reports, the Records Processing package can even be used in conjunction with our Statistical Math Package.

Sort Features

- 200,000 Character Maximum File Size
- 70 Field Records
- 32 Field Sort Criteria
- 238 Character Single Line Length
- Multi-line Records
- 10 Character Field Name
- 80 Character Command Line
- 128 Character Sortable Field
- Unlimited Field Size
- Sort by partial fields
- Copy File
- Sort Existing File
- Automatic Record Coding
- Sort Criteria
 - Alpha
 - Numeric
 - Ascending
 - Descending
 - Alpha and Numeric
- Multiple Field Sort

Select/Copy Features

- 200,000 Character Maximum File Size
- 70 Field Records
- 32 Field Select Criteria
- 238 Character Single Line Length
- Multi-line Records
- 10 Character Field Name
- 80 Character Command Line
- 128 Character Sortable Field
- Unlimited Field Size
- Select by partial fields
- Select Criteria
 - Equal To
 - Less Than
 - Greater Than
 - Greater Than and Equal To
 - Less Than and Equal To
 - Not Equal To
- Select Fields
- Re-Order Fields
- Combine Select Criteria
 - And
 - Or
 - Not



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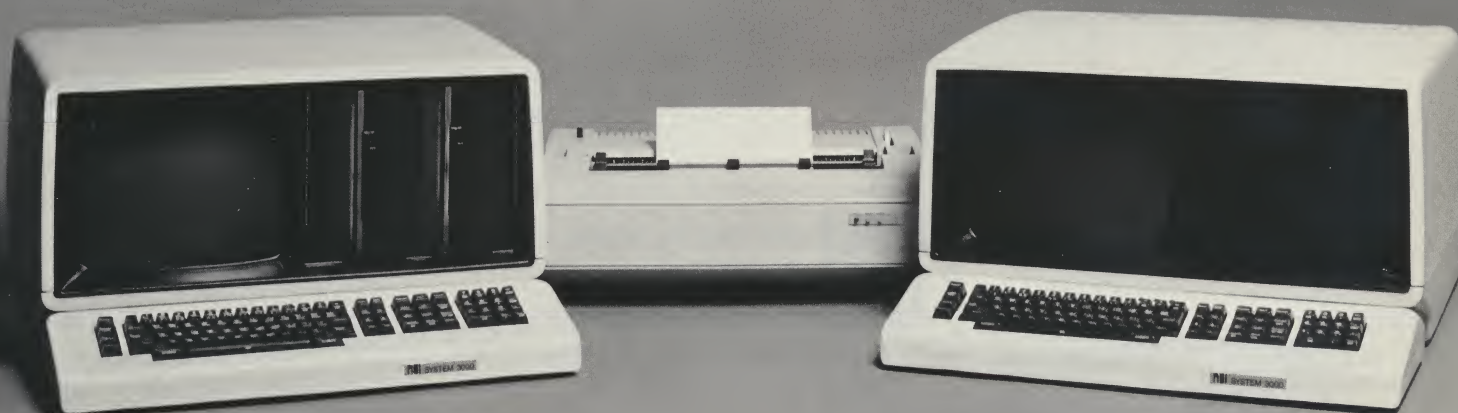
Asynchronous Communications Package

No matter how advanced information processing and computer technology become, there's usually one major bottleneck in information distribution. That's getting data from your computer to your word processing center.

The time and effort involved in processing, copying, filing and mailing are, of course, increasingly expensive. And how comfortable are you trusting critical internal documents to the speed and efficiency of the mail service?

Now information stored in your computer can be transmitted over standard phone lines and reproduced in a typewriter quality format. No more retyping from a computer printout. No more delays. And the System 3000 can be adapted to communicate with several different types of computers.

System 3000. The answer to easy, efficient information distribution and access in your office.



Features

Communication capabilities

Point-to-point communications
Point-to-computer communications
Point-to-peripherals communications
Transmission code sets

ASCII

IBM 2741 correspondence code

Communications protocols/asynchronous

ASR 33/35/37 teletype

TWX

IBM 2741

Communications interface

EIA standard RS-232-C

2 communication ports

Communications modems/data sets

asynchronous protocol

50-1200 baud/BPS

voice grade lines (unconditioned)

Hardwired communications

asynchronous protocol

50-4800 baud/BPS

20, 100, and 250 foot cable

Self diagnosis

modem and line checking

Communications Procedures

Transmit

8 document transmit queue
Selected data transmission
Transmit while draft or edit
Document assembly
Selected pages

Receive

Auto data terminal ready

Auto answer

With or without embedded coding

Receive while draft or edit

Converse

Access to transmit or receive modes

14 line screen monitor

Print while receive (up to 300 baud)

Line speed

Selectable 50-4800 baud/BPS

Display status

Port number in use

Document name in use

Tailor name in use

Line speed in use

Error count

Communications tailoring

Handshake or stream transmit/receive

Blocking control

Error checking

parity

longitudinal redundancy checking

block sequence

Error re-try

Code set translation

User defined enquiry answerback

Split case code sets

Supports 5, 6, 7, 8 bit code sets

Escape sequence/code set compression

Tailor converse mode characteristics



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Equation Typing Package

Typing equations, formulas, and mathematical symbols have always been a problem. Many of them were just too many levels high and too many characters wide.

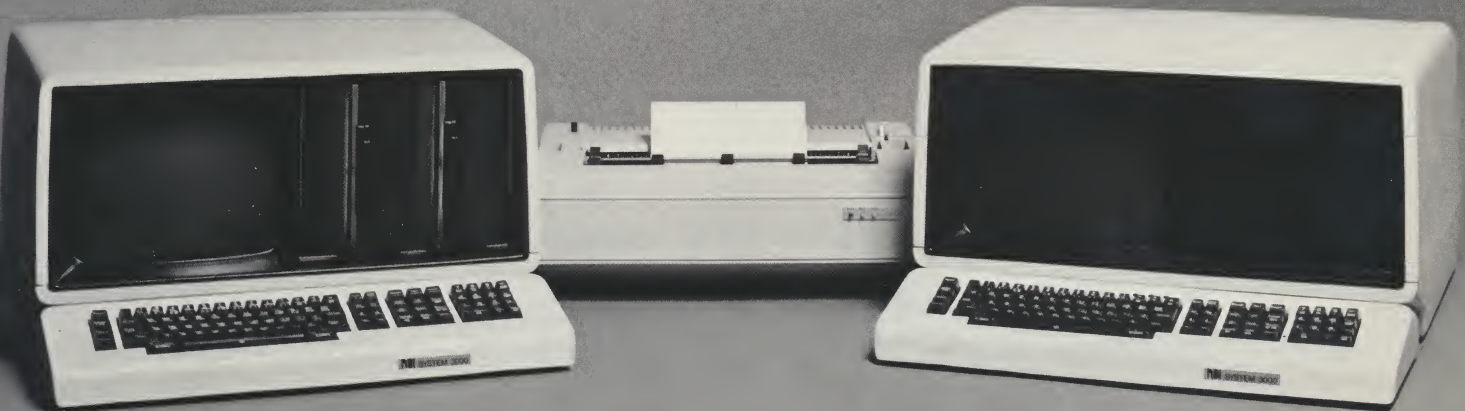
But the NBI System 3000 Equation Typing Package can handle complex expressions up to 14 levels high and 80 characters wide. You won't need to keep track of any more superscripts or subscripts. And you won't need arrows all over the screen to position your text.

This is just one example of the equations you can create. It was printed on our TwinTrack printer and appears on the screen exactly as you see it here:

$$f^{(n)}(z) = \frac{n!}{2\pi i} \int_C \frac{f(\xi)}{(\xi - z)^{n+1}} d\xi$$

You can also create special characters from three other type styles and see them right on the screen as they will appear in printout. So a delta will actually look like a Δ on the screen. (An added feature is our easy-to-follow keyboard card guide that helps you create those special characters.)

Revising equations is simple with the NBI Equation Typing Package. Text can easily be inserted and deleted without repositioning already created expressions.



Features

Automatic centering of equations
 Centered fraction bar
 Automatic numbering of equations
 Format controlled with standard
 1/2-line spacing
 Overstrike
 80 character typing line
 Tab positioning – left flush and
 right flush
 Automatic translation of special
 characters to correct printwheel
 Crosshair cursor for easy alignment
 Special symbol screen display

$\alpha \beta \xi \delta \varepsilon \downarrow \gamma \eta \iota \cdot \kappa \uparrow \omega$
 $\nu \approx \pi \mu \rho \sigma \tau \theta \lambda \phi \psi \upsilon \zeta$
 $\square \infty \Xi \Delta \partial \leftarrow \Gamma \int \neg \leftrightarrow \ddagger \rightarrow \Omega$
 $\sum \alpha \Pi \checkmark \nabla \Sigma \equiv \Theta \Lambda \Phi \Psi \Upsilon \sim$
 $\int \{ \} [] \gg \leq () \parallel$
 $\bullet \supset \subset \subset \perp \vee \ell$
 $\mp \circ \cap \cup \pounds \tau \wedge \parallel$

Revisions

Insertions – characters, word, line,
 symbols, expressions
 Deletions – character, word, line,
 symbols, expressions
 Unlimited equation movement

Format Controls

Line length
 Left margin
 Character spacing – 10, 12, 15 or 20 pitch
 Vertical line spacing – 1/2, 3/4, or 1-1/2
 Centering to 1/120th inch

Printing

13.2" writing line
 Printwheel memory
 Multifont printing

The sample below illustrates the various
 revisions mentioned:

Original Expression:

$$P_n^{(\alpha, \beta)}(x) = \frac{1}{2^n} \sum_{m=0}^n \binom{n+\alpha}{m} \binom{n+\beta}{n-m} (x-1)^{n-m} (x+1)^m$$

Insert a+b+c
(the entire expression will move to the right)
 ↓
Add $\frac{1}{\Delta + \pi}$ and move to base line
(the entire expression will move up)
 ↓

Revised Expression:

$$P_n^{(\alpha, \beta)}(x) = \frac{1}{2^n} \sum_{m=0}^n \binom{n+\alpha}{m} a + b + c \binom{n+\beta}{n-m} (x-1)^{n-m} \frac{(x+1)^m}{\Delta + \pi}$$



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